Relational Continuability

A Process-Based Model of Reality, Meaning, and Structure

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1. Introduction

Most scientific models describe reality in terms of states and their evolution over time.
This approach has proven highly effective, yet it reaches its limits when:

- observation cannot be separated from the system
- context fundamentally shapes outcomes
- dynamics are not secondary, but constitutive

This work proposes a shift:

> Reality is not primarily composed of states, but of ongoing relational processes.

Rather than treating systems, observers, and models as separate entities,
they are understood as intertwined operations within a shared structure.

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2. Difference as the Starting Point

No stable “thing” is assumed as a starting condition.

What appears as an entity arises through distinction.
Without difference:

- nothing can be identified
- nothing can be related
- nothing can continue

Difference is therefore not a property of things,
but the condition under which anything can appear at all.

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3. Relation and Connection

Relations are not secondary links between predefined entities.
Instead:

> entities emerge through stable relations.

A relation exists where connection is possible.

Connection can be understood in minimal operational terms:

- continuation (1)
- interruption (0)

This binary distinction is not semantic, but structural:
it expresses whether a process can proceed.

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4. Reality as Continuability

From this follows a central proposition:

> Reality consists of what can be continued.

Structures that persist do so because they allow further connections.
What cannot be continued does not develop further and disappears from the process.

“Nothing” is therefore not an ontological category,
but the absence of further connectability.

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5. Boundaries and Possibility

Every structure has limits.

A boundary appears where further connection fails.
This boundary is not external, but internal to the process:

> it marks the limit of what can be continued.

At the same time, it defines possibility:

- what lies within the boundary can be continued
- what lies beyond it cannot

Possibility is therefore not independent of limitation,
but arises through it.

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6. Shifting Conditions

Change does not occur by removing differences,
but by altering the conditions under which they can be integrated.

New perspectives, contexts, or relations can make previously incompatible elements connectable.

Understanding is thus not the elimination of difference,
but the expansion of what can be continued.

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7. Contextual Validity

A fully context-independent notion of truth is not sustainable
if no external vantage point exists.

Instead:

> validity is always local and context-dependent.

Statements hold under specific conditions.
They remain stable as long as these conditions allow continuation.

Truth is therefore not absolute,
but a function of sustained relational consistency.

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8. History as Structure

Processes leave traces.

What persists over time reflects what has successfully continued.
History is not a neutral record, but a structured accumulation of such continuations.

Patterns that recur become stable.
Patterns that fail dissolve.

History thus shapes future possibilities.

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9. Information as Process

Information is not treated as a fixed entity that is transmitted unchanged.

Instead:

information arises within interaction.

It appears as an event — an impulse — that depends on context and cannot be reproduced identically.

Each occurrence modifies the system in which it appears.
Time itself can be understood as the sequence of such events.

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10. Relational Dynamics

No event stands alone.

Each impulse is embedded in a network of relations.
Its effect depends on other events and their configuration.

These relations determine whether continuation is possible.

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11. Nonlinearity and Interference

Processes do not develop linearly.

Multiple influences interact simultaneously:

- reinforcing each other
- weakening each other
- transforming each other

The resulting behavior is not additive, but emergent from interaction.

Interference, rather than simple accumulation, defines the course of development.

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12. Process Over Outcome

Effects do not emerge only at endpoints.

They arise throughout the process itself.

An expected outcome may change before it is reached,
because interactions along the way continuously reshape the system.

The path is therefore not a neutral carrier,
but an active component of the result.

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13. Results as Traces

A result is not an isolated final state.

> it is the condensation of the entire process that produced it.

It reflects the interactions, constraints, and relations encountered along the way.

Results are neither purely random nor fully determined,
but path-dependent.

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14. Feedback and Adaptation

Processes do not only unfold — they respond to their own outcomes.

Successful continuations reinforce certain structures.
Unsuccessful ones fade.

This creates a second layer of dynamics:

> the system adapts based on the stability of its own processes.

This feedback influences future development.

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15. Prediction and Reconstruction

Precise prediction of individual events is not possible in such systems.

However, patterns can be recognized.

Future developments can be approached through:

- historical trajectories
- contextual conditions
- relational configurations

Prediction becomes reconstruction of possible continuations.

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16. A Differential Perspective

Static descriptions are insufficient.

What matters is not the state of a system,
but how it changes.

These changes are not independent,
but coupled within a relational structure.

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17. Relation to Physical Models

This framework does not contradict established physical theories,
but reframes their scope.

- states can be seen as temporary stabilizations
- measurement as local fixation within a process
- nonlocal correlations as expressions of relational structure

The emphasis shifts from static descriptions to dynamic relations.

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18. Conclusion

Reality can be understood as a continuous, relational process
in which differences interact, combine, and either persist or dissolve.

What becomes visible is not a fixed structure,
but the trace of an ongoing process.

🌟 Core Statement

> Reality is not a static entity.
> It emerges through the continuation of relations,
> and becomes visible in the traces left by its own development.